

Grizzly ***Industrial, Inc.***®

OSCILLATING SPINDLE & 12" DISC SANDER MODEL G0529 INSTRUCTION MANUAL



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ONLINE MANUAL DISCLAIMER

THE INFORMATION IN THIS MANUAL REPRESENTS THE CONFIGURATION OF THE MACHINE AS IT IS CURRENTLY BEING SHIPPED. THE MACHINE CONFIGURATION CAN CHANGE AS PRODUCT IMPROVEMENTS ARE INCORPORATED. IF YOU OWN AN EARLIER VERSION OF THE MACHINE, THIS MANUAL MAY NOT EXACTLY DEPICT YOUR MACHINE. CONTACT CUSTOMER SERVICE IF YOU HAVE ANY QUESTIONS ABOUT DIFFERENCES. PREVIOUS VERSIONS ARE NOT AVAILABLE ONLINE.

WARNING

Some dust created by power sanding, sawing, grinding, drilling, and other construction activities contains chemicals known to the State of California to cause cancer, birth defects or other reproductive harm. Some examples of these chemicals are:

- Lead from lead-based paints.
- Crystalline silica from bricks, cement, and other masonry products.
- Arsenic and chromium from chemically treated lumber.

Your risk from these exposures varies, depending on how often you do this type of work. To reduce your exposure to these chemicals: work in a well ventilated area, and work with approved safety equipment, such as those dust masks that are specially designed to filter out microscopic particles.

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SECTION 1: SAFETY

WARNING

For Your Own Safety Read Instruction Manual Before Operating This Equipment

The purpose of safety symbols is to attract your attention to possible hazardous conditions. This manual uses a series of symbols and signal words which are intended to convey the level of importance of the safety messages. The progression of symbols is described below. Remember that safety messages by themselves do not eliminate danger and are not a substitute for proper accident prevention measures.



Indicates an imminently hazardous situation which, if not avoided, WILL result in death or serious injury.



Indicates a potentially hazardous situation which, if not avoided, COULD result in death or serious injury.



Indicates a potentially hazardous situation which, if not avoided, MAY result in minor or moderate injury. It may also be used to alert against unsafe practices.

NOTICE

This symbol is used to alert the user to useful information about proper operation of the equipment.

WARNING

Safety Instructions For Power Tools

1. **KEEP GUARDS IN PLACE** and in working order.
2. **REMOVE ADJUSTING KEYS AND WRENCHES.** Form a habit of checking to see that keys and adjusting wrenches are removed from tool before turning on.
3. **KEEP WORK AREA CLEAN.** Cluttered areas and benches invite accidents.
4. **NEVER USE IN DANGEROUS ENVIRONMENT.** DO NOT use power tools in damp or wet locations, or where any flammable or noxious fumes may exist. Keep work area well lighted.
5. **KEEP CHILDREN AND VISITORS AWAY.** All children and visitors should be kept at a safe distance from work area.
6. **MAKE WORKSHOP CHILD PROOF** with padlocks, master switches, or by removing starter keys.
7. **NEVER FORCE TOOL.** It will do the job better and safer at the rate for which it was designed.
8. **USE RIGHT TOOL.** DO NOT force tool or attachment to do a job for which it was not designed.

WARNING

Safety Instructions For Power Tools

- 9. USE PROPER EXTENSION CORD.** Make sure your extension cord is in good condition. Conductor size should be in accordance with the chart below. The amperage rating should be listed on the motor or tool nameplate. An undersized cord will cause a drop in line voltage resulting in loss of power and overheating. Your extension cord must also contain a ground wire and plug pin. Always repair or replace extension cords if they become damaged.

Minimum Gauge for Extension Cords

AMP RATING	LENGTH		
	25ft	50ft	100ft
0-6	16	16	16
7-10	16	16	14
11-12	16	16	14
13-16	14	12	12
17-20	12	12	10
21-30	10	10	No

- 10. WEAR PROPER APPAREL.** DO NOT wear loose clothing, gloves, neckties, rings, bracelets, or other jewelry which may get caught in moving parts. Non-slip footwear is recommended. Wear protective hair covering to contain long hair.
- 11. ALWAYS USE SAFETY GLASSES.** Also use face or dust mask if cutting operation is dusty. Everyday eyeglasses only have impact resistant lenses, they are NOT safety glasses.
- 12. ALLERGIES:** Certain wood may cause an allergic reaction in people or animals, especially when exposed to fine dust. Make sure you know what type of wood dust you will be exposed to and wear proper respirators.
- 13. DO NOT OVER-REACH.** Keep proper footing and balance at all times.
- 14. MAINTAIN TOOLS WITH CARE.** Keep tools sharp and clean for best and safest performance. Follow instructions for lubricating and changing accessories.

- 15. USE RECOMMENDED ACCESSORIES.** Consult the owner's manual for recommended accessories. The use of improper accessories may cause risk of injury.
- 16. REDUCE THE RISK OF UNINTENTIONAL STARTING.** On machines with magnetic contact starting switches there is a risk of starting if the machine is bumped or jarred. Always disconnect from power source before adjusting or servicing. Make sure switch is in OFF position before reconnecting.
- 17. CHECK DAMAGED PARTS.** Before further use of the tool, a guard or other part that is damaged should be carefully checked to determine that it will operate properly and perform its intended function. Check for alignment of moving parts, binding of moving parts, breakage of parts, mounting, and any other conditions that may affect its operation. A guard or other part that is damaged should be properly repaired or replaced.
- 18. NEVER LEAVE TOOL RUNNING UNATTENDED. TURN POWER OFF.** DO NOT leave tool until it comes to a complete stop.
- 19. NEVER OPERATE A MACHINE WHEN TIRED, OR UNDER THE INFLUENCE OF DRUGS OR ALCOHOL.** Full mental alertness is required at all times when running a machine.
- 20. NEVER ALLOW UNSUPERVISED OR UNTRAINED PERSONNEL TO OPERATE THE MACHINE.** Make sure any instructions you give in regards to machine operation are approved, correct, safe, and clearly understood.
- 21. IF AT ANY TIME YOU ARE EXPERIENCING DIFFICULTIES** performing the intended operation, stop using the machine! Then contact our service department or ask a qualified expert how the operation should be performed.

WARNING

Additional Safety Instructions For The Oscillating Spindle & Disc Sander

- **READ THIS MANUAL.** This manual contains proper operating instructions for this machine.
- **DO NOT** jam the workpiece against the sanding surfaces. Firmly grasp the workpiece in both hands and ease it against the spindle/disc using light pressure.
- **DO NOT** wear loose clothing while operating this machine. Roll up or button sleeves at the cuff.
- **DO NOT** place hands near, or in contact with, sanding surfaces during operation.
- **GRIP THE WORKPIECE WITH BOTH HANDS.**
- **PERFORM** machine inspections and maintenance service promptly when called for.
- **NEVER** leave the machine running unattended.
- **REPLACE** sanding discs and sleeves when they become worn.
- **NEVER** sand more than one piece of stock at a time.
- **ALWAYS** inspect board stock for nails, staples, knots, and other imperfections that could be dislodged and thrown from the machine during sanding operations.
- **NEVER** operate the sander without an adequate dust collection system in place and running.
- **NEVER** sand tapered or pointed stock with the point facing the feed direction.
- **DISCONNECT THE MACHINE FROM THE POWER SOURCE** before changing the sanding disc or sleeve.
- **TEST RUN THE MACHINE** before starting any work.

CAUTION

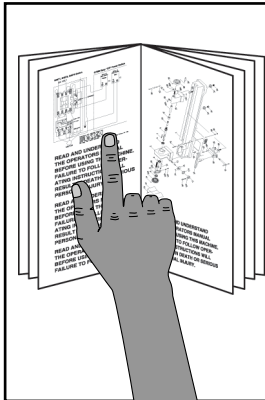
No list of safety guidelines can be complete. Every shop environment is different. Always consider safety first, as it applies to your individual working conditions. Use this and other machinery with caution and respect. Failure to follow guidelines could result in serious personal injury, damage to equipment or poor work results.



CAUTION

Always wear a respirator when operating the Model G0529. Using this machine produces sawdust which may cause allergic reactions or respiratory problems.

SECTION 2: INTRODUCTION



!WARNING

Lack of familiarity with this manual could cause serious personal injury. Become familiar with the contents of this manual, including all the safety warnings.

We are proud to offer the Model G0529 Oscillating Vertical Spindle Sander & 12" Disc Sander. This machine is part of a growing Grizzly family of fine woodworking machinery. When used according to the guidelines set forth in this manual, you can expect years of trouble-free, enjoyable operation and proof of Grizzly's commitment to customer satisfaction.

We are pleased to provide this manual with the Model G0529. It was written to guide you through assembly, review safety considerations, and cover general operating procedures. It represents our effort to produce the best documentation possible.

If you have any comments regarding this manual, please write to us at the address below:

Grizzly Industrial, Inc.
c/o Technical Documentation
P.O. Box 2069
Bellingham, WA 98227-2069

Most importantly, we stand behind our machines. If you have any service questions or parts requests, please call or write us at the location listed below.

Grizzly Industrial, Inc.
1203 Lycoming Mall Circle
Muncy, PA 17756
Phone: (570) 546-9663
Fax: (800) 438-5901
E-Mail: techsupport@grizzly.com
Web Site: <http://www.grizzly.com>

The specifications, drawings, and photographs illustrated in this manual represent the Model G0529 as supplied when the manual was prepared. However, owing to Grizzly's policy of continuous improvement, changes may be made at any time with no obligation on the part of Grizzly. For your convenience, we always keep current Grizzly manuals available on our website at www.grizzly.com. Any updates to your machine will be reflected in these manuals as soon as they are complete. Visit our site often to check for the latest updates to this manual!



SECTION 3: CIRCUIT REQUIREMENTS

110 Volt

Amperage Draw

The Model G0529 1 HP motor is wired to operate at 110V and will draw the following load:

Motor Load 10 Amps

Plug Type

The Model G0529 is supplied with a NEMA 5-15 plug. DO NOT modify the plug or power cord in any way. See **Figure 1** for a NEMA 5-15 plug and grounded outlet.

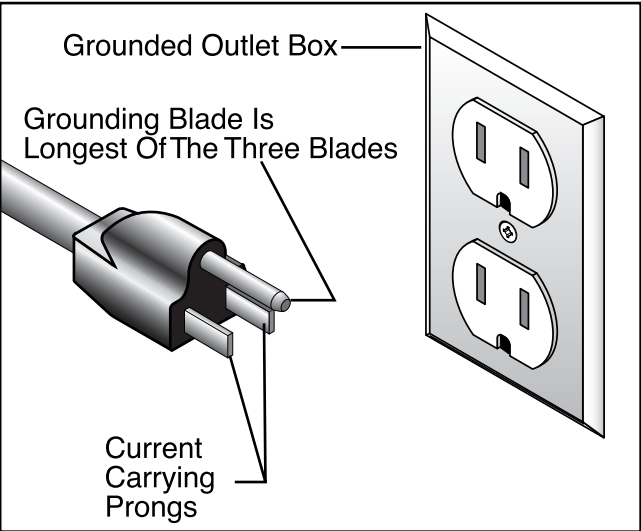


Figure 1. NEMA 5-15 plug and grounded outlet.

Circuit Breaker Requirements

We recommend that the circuit you use your machine on should be dedicated. Use the following guidelines when choosing a circuit breaker for your machine (circuit breakers rated any higher are not adequate to protect the circuit):

Recommended Circuit Breaker 15 Amp

Your Circuit Capacity

Always check to see if the wires in your circuit are capable of handling the amperage load from your machine. If you are unsure, consult a qualified electrician.

If you operate this machine on any circuit that is already close to its capacity, it might blow a fuse or trip a circuit breaker. However, if an unusual load does not exist and a power failure still occurs, contact a qualified electrician or our Service Department at (570) 546-9663.

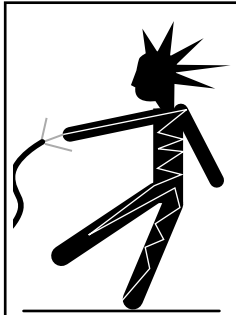
WARNING

Serious personal injury could occur if you connect your machine to the power source before you have completed the assembly process. DO NOT connect the machine to the power source until instructed to do so.



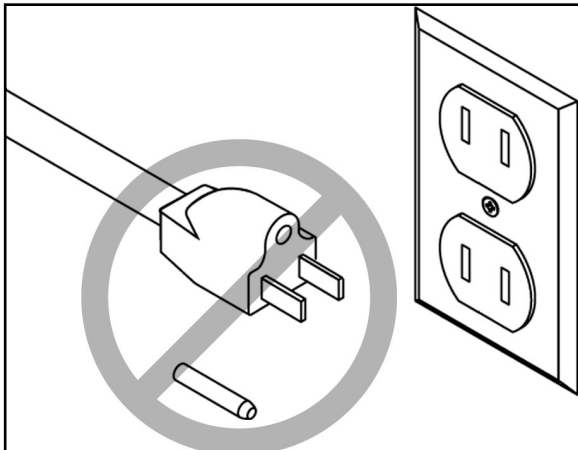
Grounding

In the event of an electrical short, grounding reduces the risk of electric shock by providing a path of least resistance to disperse electric current. This tool is equipped with a power cord that has an equipment-grounding prong. The outlet must be properly installed and grounded in accordance with all local codes and ordinances.



!WARNING

Electrocution or a fire can result if the machine is not grounded correctly. Make sure all electrical circuits are grounded. DO NOT use the machine if it is not grounded.



!CAUTION

This machine must have a ground prong in the plug to help ensure that it is grounded. DO NOT remove ground prong from plug to fit into a two-pronged outlet! If the plug will not fit the outlet, have the proper outlet installed by a qualified electrician.

NOTICE

The wire on the power cord with green or green and yellow striped insulation is the grounding conductor.



Extension Cords

110V Operation

If you find it necessary to use an extension cord at 110V:

- Make sure the cord is rated Standard Service (grade S) or better.
- The extension cord must also contain a ground wire and plug pin.
- Use at least a 16 gauge cord if the cord is 50 feet long or less.
- DO NOT use a cord longer than 100 feet!

!CAUTION

No single list of electrical guidelines can be comprehensive for all shop environments. Operating this machinery may require additional electrical upgrades specific to your machine and shop environment. It is your responsibility to make sure your electrical systems comply with all local electrical codes and ordinances.



SECTION 4: MACHINE FEATURES

An important part of safety is knowing your machine and its components. Take the time to familiarize yourself with the features of your new G0529 Oscillating Spindle & 12" Disc Sander. They will be frequently mentioned throughout the instructions in this manual.

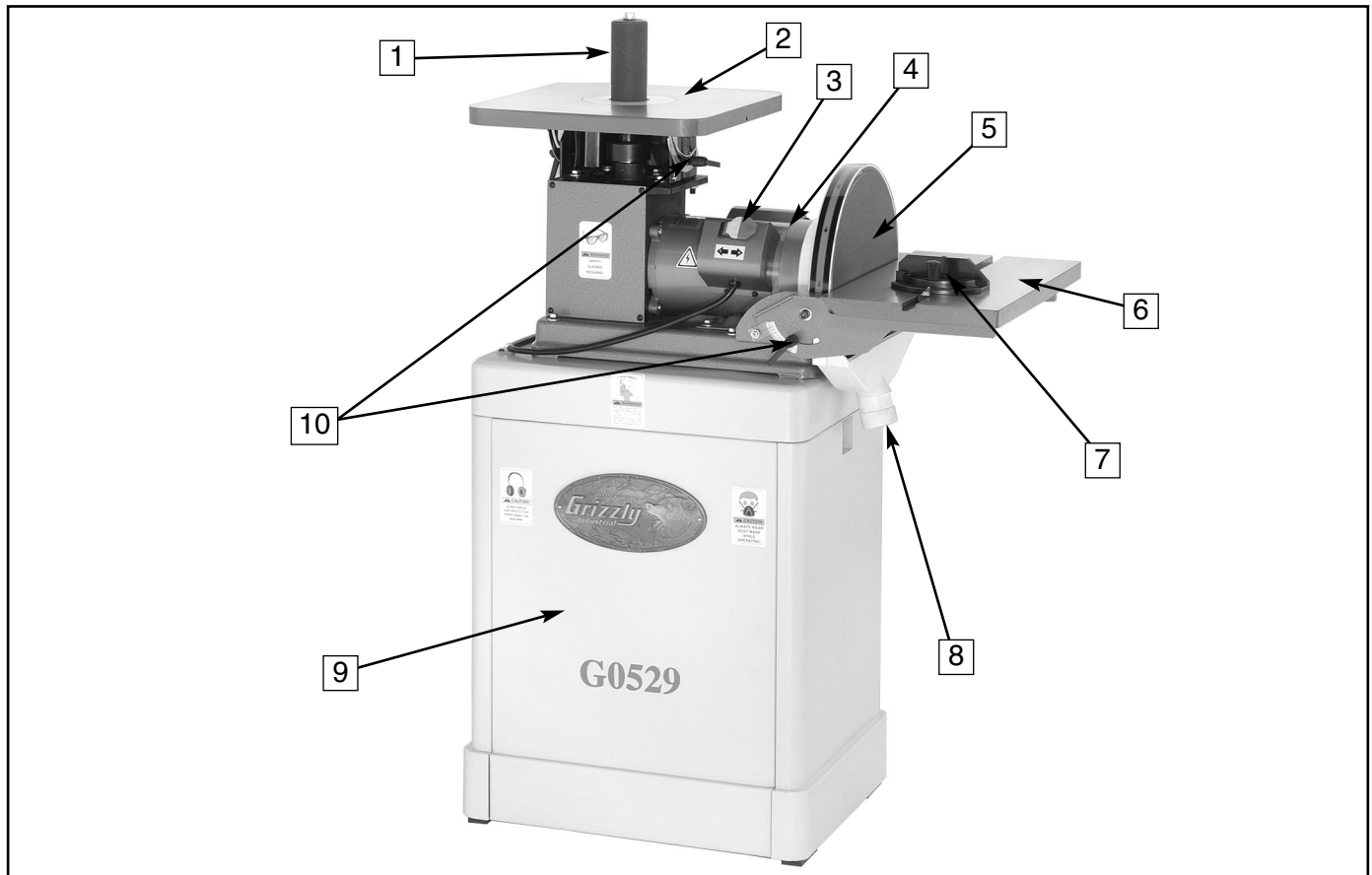



Figure 2. Machine Features.

1. Sanding Spindle
2. Cast Iron Spindle Sanding Table
3. Power Switch
4. Motor
5. Sanding Disc
6. Cast Iron Disc Sanding Table
7. Miter Gauge
8. Dust Ports (Spindle Port Not Shown)
9. Cabinet
10. Graduated Scales

SECTION 5: SET UP


Unpacking

The Model G0529 Oscillating Spindle & 12" Disc Sander was carefully packed at the factory. If you discover the machine is damaged after you have signed for delivery, and the truck and driver are gone, you will need to file a freight claim with the carrier. Save the containers and all packing materials for possible inspection by the carrier or its agent. Without the packing materials, filing a freight claim can be difficult. If you need assistance determining whether you need to file a freight claim, or with the procedure to file one, please contact our Customer Service.



⚠ WARNING

The Model G0529 weighs 143 lbs. Personal injury could occur if the machine is moved without additional assistance. Seek help when moving or lifting the machine.



⚠ CAUTION

Sharp edges on metal parts may cause personal injury. Examine the edges of all metal parts before handling.

When you are completely satisfied with the condition of your shipment, you should inventory its parts.



Parts Inventory

DESCRIPTION	Qty
A. Sander unit	1
B. Left and Right Side Panels	2
C. Front and Rear Panels	2
D. Miter Gauge Assembly	1
E. Spindle Assemblies	
• 2"	1
• 1½"	1
• 5⁄8"	1
• ¼"	1
F. Table Inserts	
• Oval Table Insert 2"	1
• Table Insert 2"	1
• Oval Table Insert ¾"	1
• Table Insert ¾"	1
G. Rubber Floor Pads	
• Flat Head Screws 5⁄16"-18 x ¾"	4
• Washers 5⁄16"	4
• Nuts 5⁄16"	4
H. Wrench Hardware Bag	
• Open End Wrench 17mm	2
• Open End Wrench 12mm	1
I. Hardware Bag	
• Hex Bolts 5⁄16"-18 x ¾"	8
• Hex Nuts 5⁄16"-18	10
• Lock Washers 5⁄16"	10
• Washers 5⁄16"	18
• Hex Bolts 5⁄16"-18 x 1¼"	2
• Hex Key 6mm	1

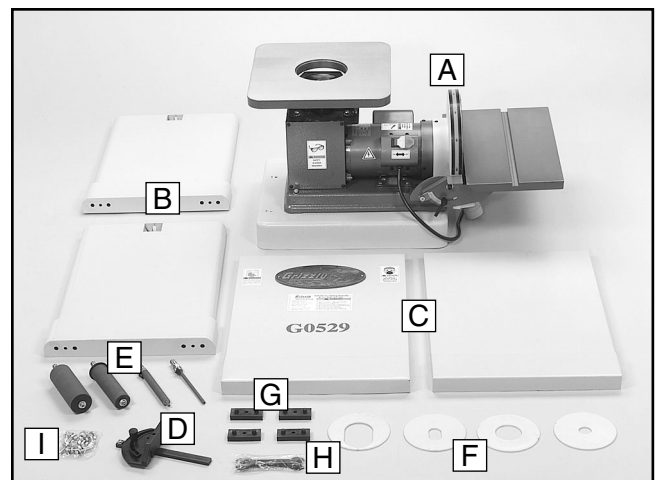


Figure 2. G0529 inventory.

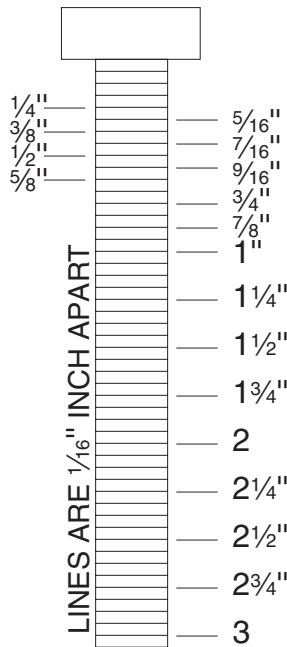
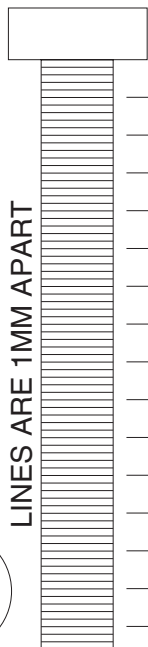
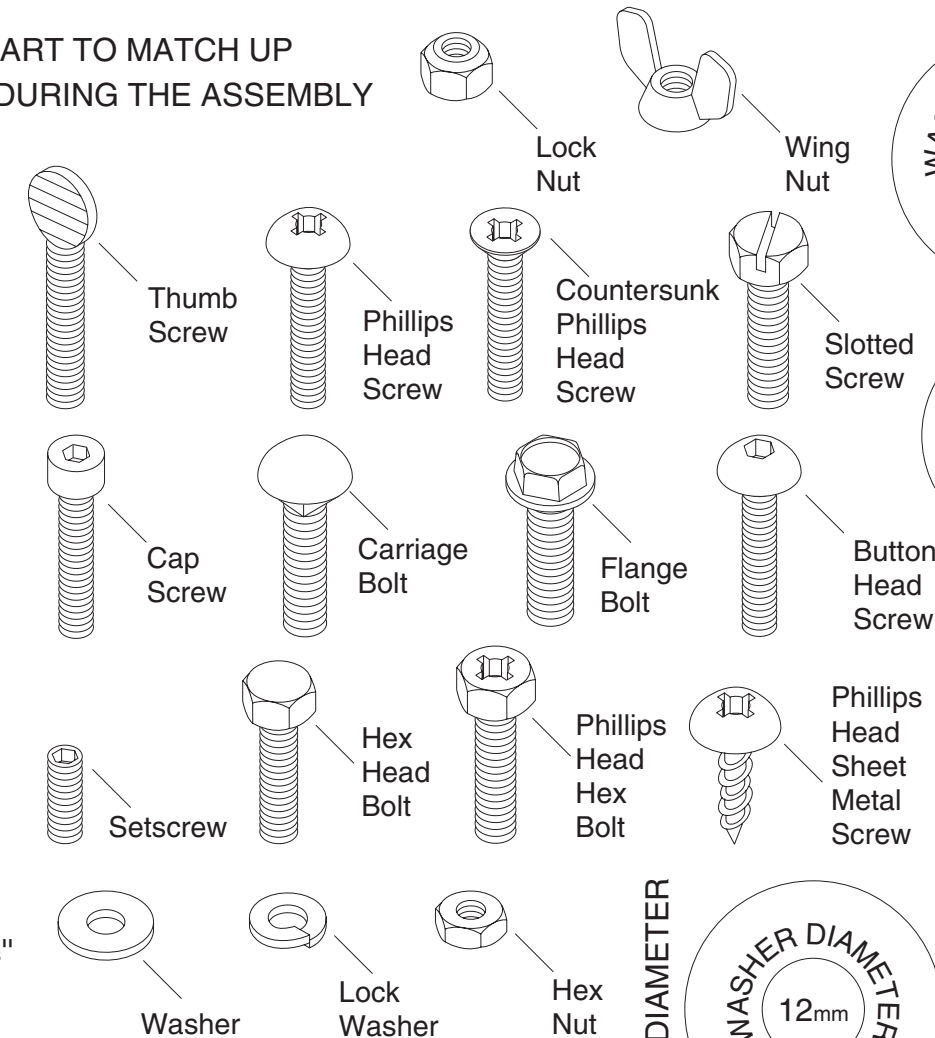


Hardware Recognition Chart

USE THIS CHART TO MATCH UP
HARDWARE DURING THE ASSEMBLY
PROCESS!

MEASURE BOLT DIAMETER BY PLACING INSIDE CIRCLE


- #10
- 1/4"
- 5/16"
- 3/8"
- 7/16"
- 1/2"
- 5/8"
- 4mm
- 6mm
- 8mm
- 10mm
- 12mm
- 16mm




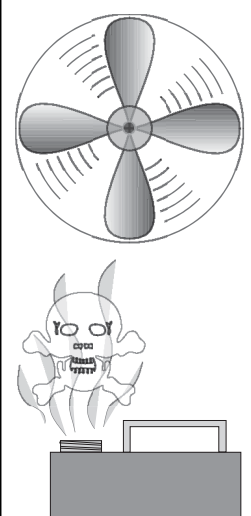
WASHERS ARE MEASURED BY THE INSIDE DIAMETER

Clean Up

The unpainted surfaces are coated with a waxy oil to protect them from corrosion during shipment. Remove this protective coating with a solvent cleaner or citrus-based degreaser such as Grizzly's G7895 Degreaser. To clean thoroughly, some parts may need to be removed. **For optimum performance from your machine, make sure you clean all moving parts or sliding contact surfaces that are coated.** Avoid chlorine-based solvents as they may damage painted surfaces should they come in contact.

	!WARNING Gasoline and petroleum products have low flash points and could explode if used to clean machinery. DO NOT use gasoline or petroleum products to clean the machinery.
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	!WARNING Smoking near solvents could ignite an explosion or fire and cause serious injury. DO NOT smoke while using solvents.
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	!WARNING Lack of ventilation while using solvents could cause serious personal health risks, fire, or environmental hazards. Always work in a well ventilated area to prevent the accumulation of dangerous fumes. Supply the work area with a constant source of fresh air.
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Site Considerations

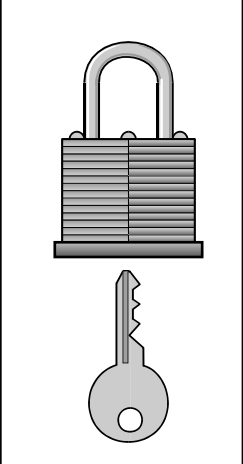
Weight Load

The Model G0529 weighs 143 lbs. and has a 21 $\frac{1}{4}$ " X 16 $\frac{1}{2}$ " footprint. Most shop floors should be sufficient to carry the weight of the machine. Reinforce the floor if you question its ability to support the weight.

Working Clearance

Working clearances can be thought of as the distances between machines and obstacles that allow safe operation of every machine without limitation. Consider existing and anticipated machine needs, size of material to be processed through each machine, and space for auxiliary stands or work tables. Also consider the relative position of each machine to one another for efficient material handling.

Lighting And Outlets Lighting should be bright enough to eliminate shadow and prevent eye strain. Electrical circuits should be dedicated or large enough to handle the amperage draw. Outlets should be located near each machine so power or extension cords are clear of high-traffic areas. Observe local electrical codes for proper installation of new lighting, outlets, or circuits.

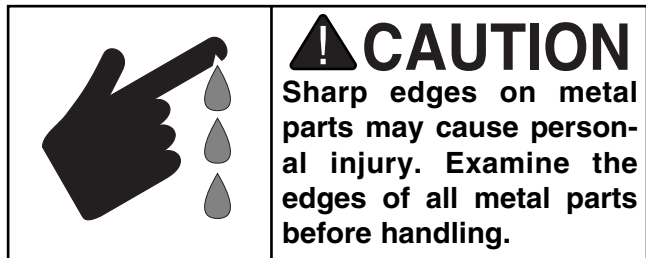
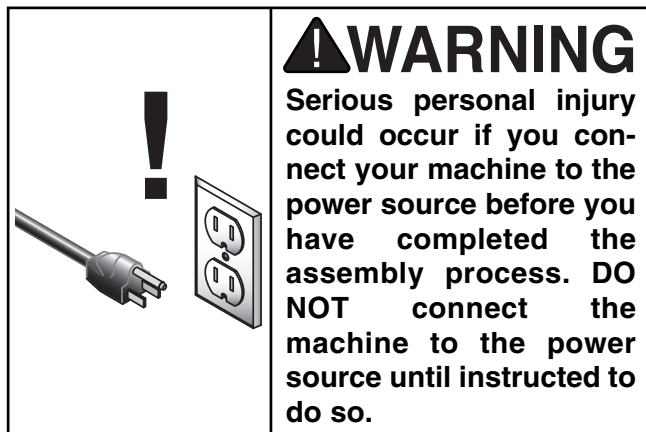
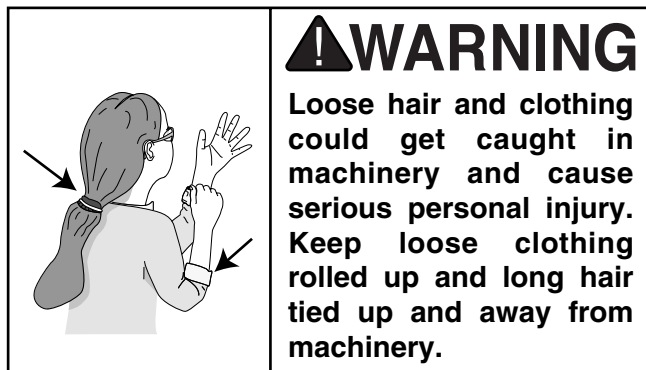
	!WARNING Unsupervised children and visitors inside your shop could receive serious personal injury. Ensure child and visitor safety by keeping all entrances to the shop locked at all times. DO NOT allow unsupervised children or visitors in the shop at any time.
--	--



Beginning Assembly

This section will cover the basic assembly and adjustment instructions needed to begin operation. Complete the assembly in the order provided in this manual and then read the remaining portion of the manual before attempting any type of operation.

Your safety is important! Please follow the warnings below during this entire section:



Cabinet Assembly

The Model G0529 Sander mounts on a sturdy cabinet stand.

To assemble the cabinet stand:

1. Connect all four panels together with the $\frac{5}{16}$ " -18 x $\frac{3}{4}$ " hex bolts, lock washers, washers and hex nuts (**Figure 3**).



Figure 3. Assembled panels.

2. Using the $\frac{5}{16}$ " flat head screws, $\frac{5}{16}$ " washers and nuts, install the four rubber feet as shown in **Figure 4**.



Figure 4. Installing rubber feet.

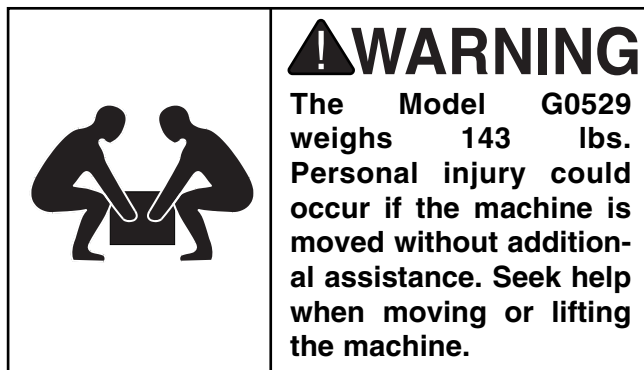


Mounting Sander

When the cabinet has been completed, it is time to place the sander unit on top of the cabinet stand.

To mount the sander to the top of the cabinet stand:

1. With the help of an assistant, place the sander on the cabinet stand.



2. Align the holes on the rim of the cabinet sides with the threaded holes in the rim of the sander.
3. Secure the cabinet and the sander together with the $\frac{5}{16}$ "-18 x $1\frac{1}{4}$ " hex bolts, $\frac{5}{16}$ " lock washers, and $\frac{5}{16}$ " flat washers combination as shown in **Figure 5**.



Figure 5. Cabinet hole location.

Installing Spindle

To install the spindle onto the sander:

1. **Disconnect the machine from the power supply.**
2. Select the proper diameter of spindle sleeve. The Model G5029 comes with the following four sizes of spindle sleeves:
 - $\frac{1}{4}$ "
 - $\frac{5}{8}$ "
 - $1\frac{1}{2}$ "
 - 2"
3. Make sure the tapered end of the spindle sleeve is clean before installing it into the sander spindle.
4. Use the supplied open end wrenches to secure the spindle as shown in **Figure 6**. Note—*Do not over tighten the spindle sleeve, it could make removal difficult.*

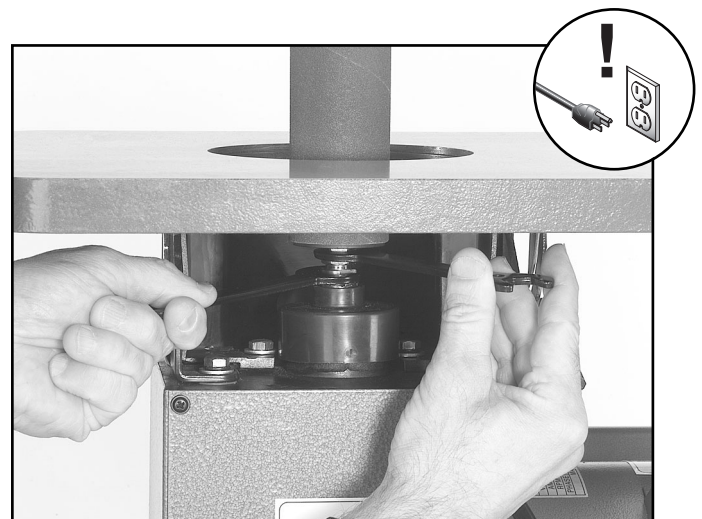


Figure 6. Installing spindle.



Table Inserts

The table inserts minimize the gap between the working surface edge and the spindle. It is important to use the proper table insert according to the diameter spindle you are using.

The Model G5029 comes with the following four table inserts:

- 2"
- 1"
- 2" elliptical
- 1" elliptical

Select the table insert that comes closest the spindle sleeve diameter without touching it. The elliptical inserts are used when sanding with the table tilted.

Place the table insert into the table hole as shown in **Figure 7**.



Figure 7. Installing table inserts.



Squaring Table

To square the sanding tables:

1. Disconnect the machine from the power supply.
2. Set the table at 90° as shown in **Figure 8**.

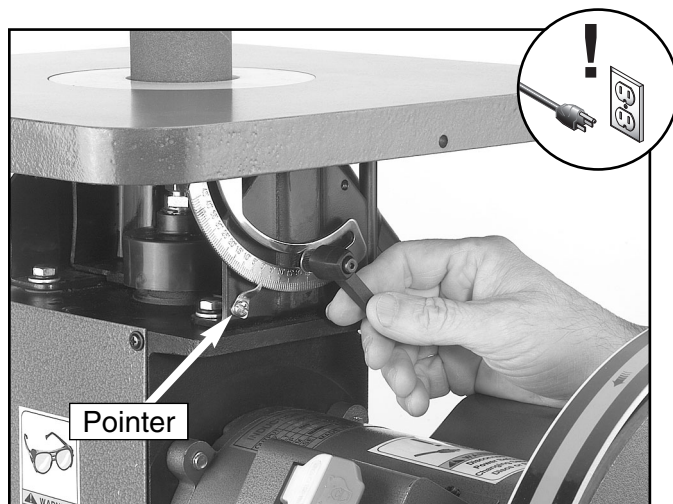


Figure 8. Setting the table scale at 90°.

3. Place a machinist square on the table and against the sanding spindle to verify the table is 90° from the edge of the sanding sleeve as shown in **Figure 9**.
4. Adjust the pointer to 90°.

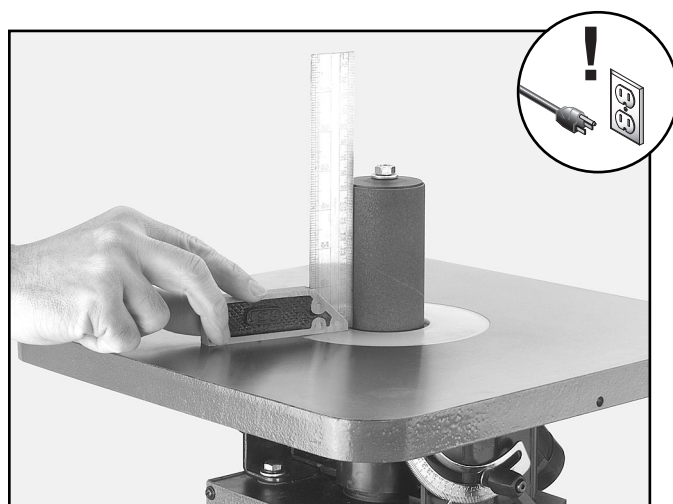


Figure 9. Squaring the table and spindle.

5. If the table is not 90° from the spindle, adjust the table stop bolt to allow the table to move more as shown in **Figure 10**.

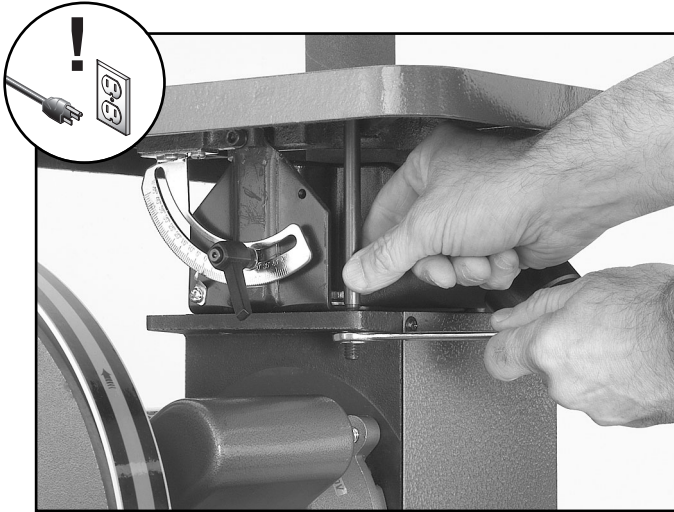


Figure 10. Squaring the sanding table.

6. Tighten the table stop bolt against the underside of the table when the table is set at 90°.



Squaring Disc Sander

The sanding tables for the spindle sander and the disc sander have tilting capabilities from 0° to 45°.

To tilt the sanding table:

1. Disconnect the machine from the power supply.
2. Using a machinist square, set one edge on the table surface and the other against the face of the sanding disc as shown in **Figure 11**. Note—*This can be done with the sandpaper installed, although it is somewhat easier to measure if the disc does not have the sandpaper disc installed.*

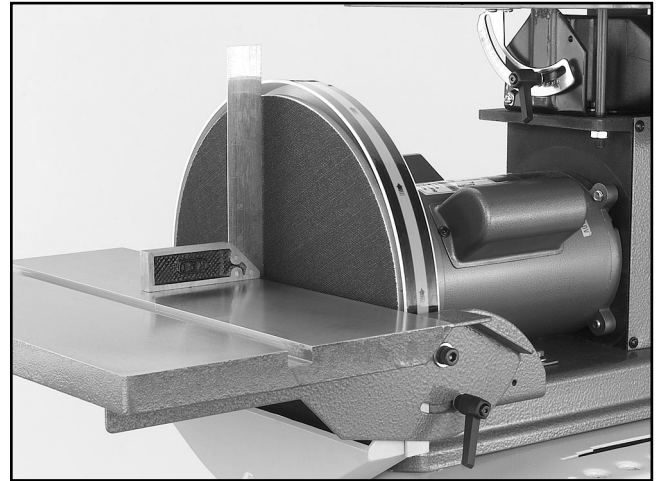


Figure 11. Squaring the sanding table.

3. Loosen the lock lever and adjust the table angle until it is perfectly perpendicular and flush with both edges of the machinist square.
4. Tighten the lock lever while holding the table perpendicular.
5. Adjust the scale pointer to read 0° when the table has been properly adjusted.



Sanding Disc Installation

The disc sander requires 12" sanding discs with hook and loop backing.

To install a new sanding disc on the 12" disc sanding surface:

1. Disconnect the machine from the power supply.
2. Remove the disc sanding table.
3. Remove the old sanding disc.
4. Install the new sanding disc as shown in **Figure 12**.

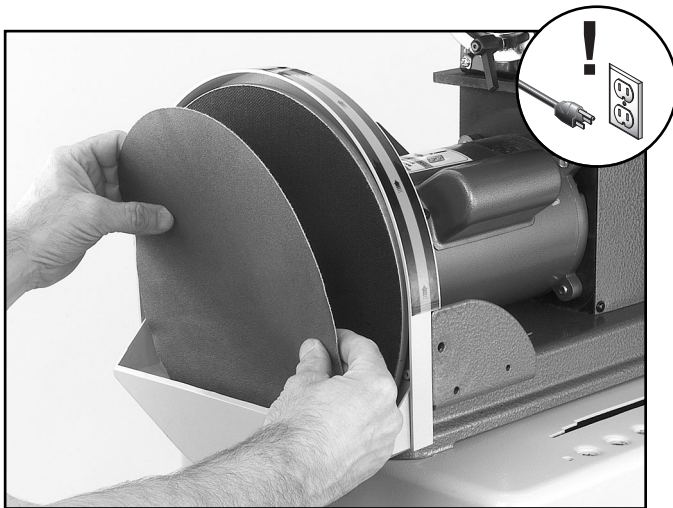


Figure 12. Installing sanding disc.



Aligning Table

The table must be aligned to the face of the sanding disc so that the sandpaper does not rub against the table.

To align the table:

1. Loosen the bolts that secure the table to the table support bracket as shown in **Figure 13**.

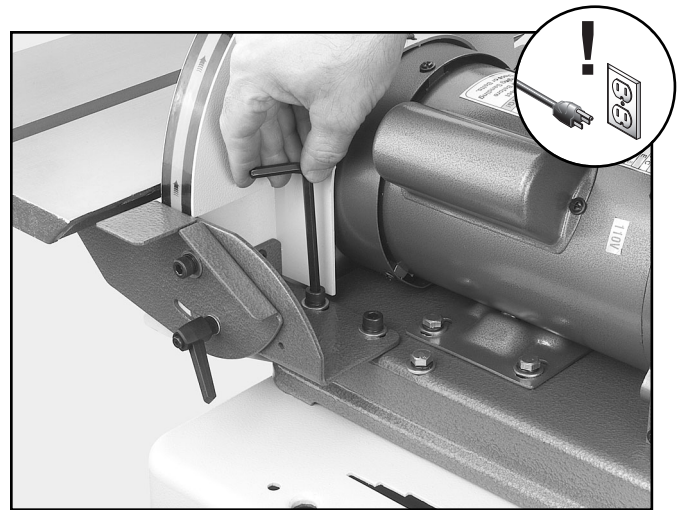


Figure 13. Loosening table bolts.

2. Align the table so that there is a $\frac{1}{16}$ " gap between the 12" disc and the table.
3. Tighten the bolts loosened in **step 1**.
4. Spin the disc by hand to check if the sandpaper is touching the table. *Note—DO NOT turn the disc sander on at this point.*
5. Repeat **steps 1-3** if the sandpaper touches table at any point in the rotation.



Miter Gauge

The miter gauge needs to be adjusted perpendicular to the face of the wheel when it is mounted in the table slot.

To adjust miter gauge:

1. Use a machinist square with one edge against the face of the miter gauge and the other against the disc face as shown in **Figure 14**.

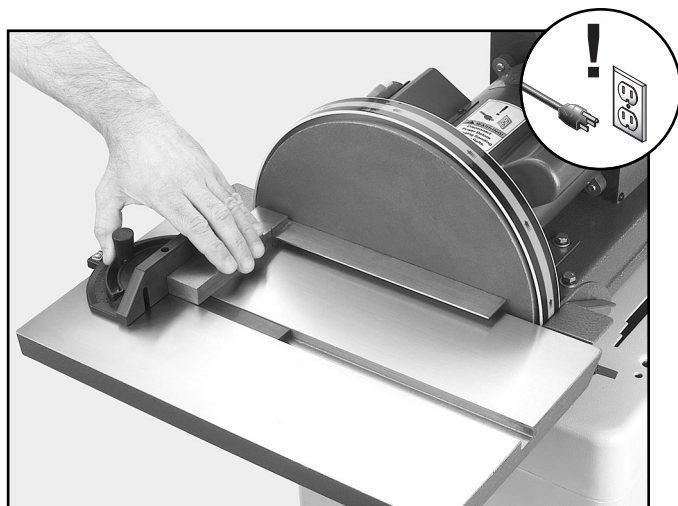


Figure 14. Squaring miter gauge to disc.

2. Loosen the lock knob on the miter gauge to adjust it flush with the edge of the square.
3. Tighten the lock knob, and verify the setting. *Note—Sometimes the tightening procedure can affect the adjustment.*
4. Loosen the setscrew that secures the angle pointer and adjust the pointer to the 0° mark on the scale.
5. Retighten the setscrew that secures the angle pointer.



Dust Collection

There are two 2" dust collection ports for the sander that should be connected to a dust collector. The ports are located under the sanding tables as shown in **Figure 15**.

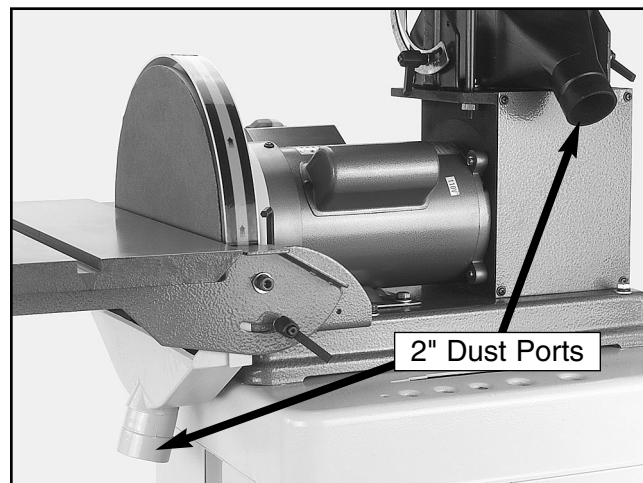


Figure 15. Dust ports.

To connect your machine to a dust collection system:

1. Use a 2" diameter hose to connect a dust collection system to your dust ports.
2. Start the dust collection system before operating the sander.



SECTION 6: OPERATIONS

General

This section covers basic disc sanding operations. Please read the remaining portion of the manual before attempting any type of operation.

Your safety is important! Please follow the warnings below during this entire section:

!WARNING

Damage to your eyes, lungs, and ears could result from failure to wear safety glasses, a respirator, and hearing protection while sanding with this machine.



!WARNING

Loose hair and clothing could get caught in machinery and cause serious personal injury. Keep loose clothing rolled up and long hair tied up and away from machinery.

!WARNING

Operating this equipment has the potential to propel debris into the air which can cause eye injury. Always wear safety glasses or goggles when operating equipment. Everyday glasses or reading glasses only have impact resistant lenses, they are not safety glasses. Be certain the safety glasses you wear meet the appropriate standards of the American National Standards Institute (ANSI).

Power Switch

The Model G0529 sander is equipped with a paddle-type power switch with a safety key.

To operate the power switch:

1. Insert the safety locking key shown in **Figure 16**.



Figure 16. On/Off Switch.

2. Lift the switch to start and press to stop the motor.
3. Remove the locking key when the machine is not in use and store the key in a safe place.

!WARNING

Make sure the power switch is in the OFF position before connecting the sander to the power source. Serious personal injury could occur if you connect your machine to the power source with the power switch ON.



Spindle Sanding

The oscillating spindle sander on the Model G0529 produces an extremely fine sanding finish on edges or contours. The oscillation of the spindle disperses the material contact throughout the sanding sleeve to prevent burning.

To perform spindle sanding operations:

1. Check to make sure that the table insert has been installed correctly and the spindle is secured tightly.
2. Set the angle of the table relative to the sanding sleeve. The angle can be set with the angle gauge on the spindle sander table or with a protractor for greater accuracy.

Note—The spindle sander table can be positioned from 0° to 45°, relative to the plane of the sanding surface.

3. Make sure that the appropriate spindle has been selected for the intended operation and that it is installed properly.
4. Connect the sander to a dust collection system.
5. Turn the power switch *ON* to start the spindle sander and begin sanding as shown in **Figure 17. DO NOT FORCE THE WORKPIECE AGAINST THE SANDING SLEEVE.**

WARNING

Never use the Model G0529 for applications other than those for which it was made. **DO NOT** overload the machine or use excess force when sanding. Severe personal injury, damage to the machine, or damage to your workpiece could occur.

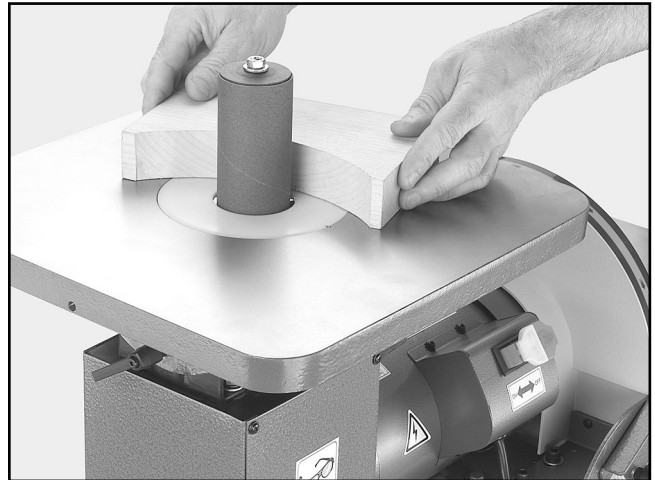


Figure 17. Spindle sanding.



Disc Sanding

To perform disc sanding operations:

1. Set the angle of the table relative to the sanding disc. The angle can be set with the angle gauge on the disc sander or with a protractor for greater accuracy.

Note—The disc table can be positioned from 0° to 45°, relative to the plane of the sanding surface.

2. Once the desired table angle has been set, move the table towards the sanding disc to decrease the gap between the table and the disc. The gap should be $\frac{1}{16}$ ".
3. To sand straight edges, firmly hold the side of workpiece against the miter gauge (set at 0°), with the other surface against the face of the disc (**Figure 18**).

Note—For sanding curves or irregular shapes, remove the miter gauge from the disc table. Always keep the workpiece on the side of the wheel that is rotating down toward the table. This will keep the workpiece from flying out of your hands from the rotational forces.



Figure 18. Disc sanding with table tilted.



Miter Sanding

The most efficient way to get a perfect miter is to cut the workpiece slightly long and sand it to the desired dimension. Miter sanding can be done easily with the miter gauge:

To perform miter sanding operations:

1. Loosen the knob on the miter gauge, adjust the angle to the desired point, and tighten the knob.
2. Slide the miter gauge into its slot and use it to hold your workpiece in position (**Figure 19**). *Note—The miter gauge can be used in either direction in the slot to achieve the proper relation of the workpiece to the disc.*



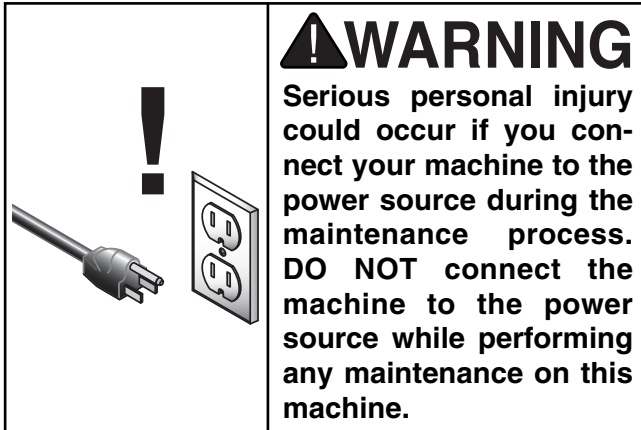
Figure 19. Disc sanding with miter.



SECTION 7: MAINTENANCE

Maintenance Safety

Your safety is important! Please follow the warnings below during this entire section:



Schedule

Check for the following conditions before you use the sander:

- Loose table bolts.
- Worn or damaged sanding discs or sleeves.
- Worn or damaged wires.
- Any other condition that could hamper the safe operation of this machine.

Perform the following tasks at the scheduled time intervals:

After Each Use

- Wipe off the sawdust build-up from the table surface.
- Turn off power switch and remove the switch key.
- Check for spindle straightness.

Weekly

- Wipe a lubricant such as SLIPIT® onto the table.
- All the bearings are permanently lubricated and require no further lubrication

Long-Term Storage

- Keep unpainted surfaces rust free with products such as Boeshield® T-9.





SECTION 8: REFERENCE INFO

General

This section contains the following subsections for the Model G0529: aftermarket accessories, data sheets, parts diagrams and list, troubleshooting, and warranty/return information.

If you need parts or help in assembling your machine, or if you need operational information, call the service department at (570) 546-9663. Trained service technicians will be glad to help you.

If you have any comments regarding this manual, please write to Grizzly at the address below:

Grizzly Industrial, Inc.
c/o Technical Documentation
P.O. Box 2069
Bellingham, WA 98227-2069

We recommend you keep a copy of our current catalog for complete information regarding Grizzly's warranty and return policy. If you need additional technical information relating to this machine, or if you need general assistance or replacement parts, please contact the Service Department at the location listed below.

Grizzly Industrial, Inc.
1203 Lycoming Mall Circle
Muncy, PA 17756
Phone: (570) 546-9663
Fax: (800) 438-5901
E-Mail: techsupport@grizzly.com
Web Site: <http://www.grizzly.com>



Aftermarket Accessories

To order replacement sanding discs or spindle sleeves, call our customer service line 24 hours a day at 1-800-523-4777 or visit our website at www.grizzly.com.

PRO-STICK® Abrasive Surface Cleaners

Extend the life of your sanding discs and sleeves!

Size	Model
1½" X 1½" X 8½"	G1511
2" X 2" X 12"	G1512



Figure 15. PRO-STICK® abrasive cleaners.





MACHINE DATA SHEET

Customer Service #: (570) 546-9663 • To Order Call: (800) 523-4777 • Fax #: (800) 438-5901

G0529 OSCILLATING SPINDLE & 12" DISC SANDER

Design TypeFloor Model

Overall Dimensions:

Height47"H
Height (Spindle Table to Floor).....42"H
Height (Disc Table to Floor)33"H
Height (Cabinet)27½"H
Width32"W
Depth (Length)18"D
Table (Disc)17¾"W x 10"D
Table (Spindle)14½" x 14½"
Motor Shaft Size15mm
Footprint21¼"W x 16½"D
Box Size34"W x 30½"D x 21"H
Weight (net)166 lbs.
Weight (shipping)180 lbs.

Construction:

Table Precision Ground Cast Iron
DiscComputer Balanced Aluminum
BasePre-Formed Steel
CabinetPre-Formed Steel
Miter GaugePlastic With Steel Bar
BearingsSealed & Permanently Lubricated Ball Bearings

Motor:

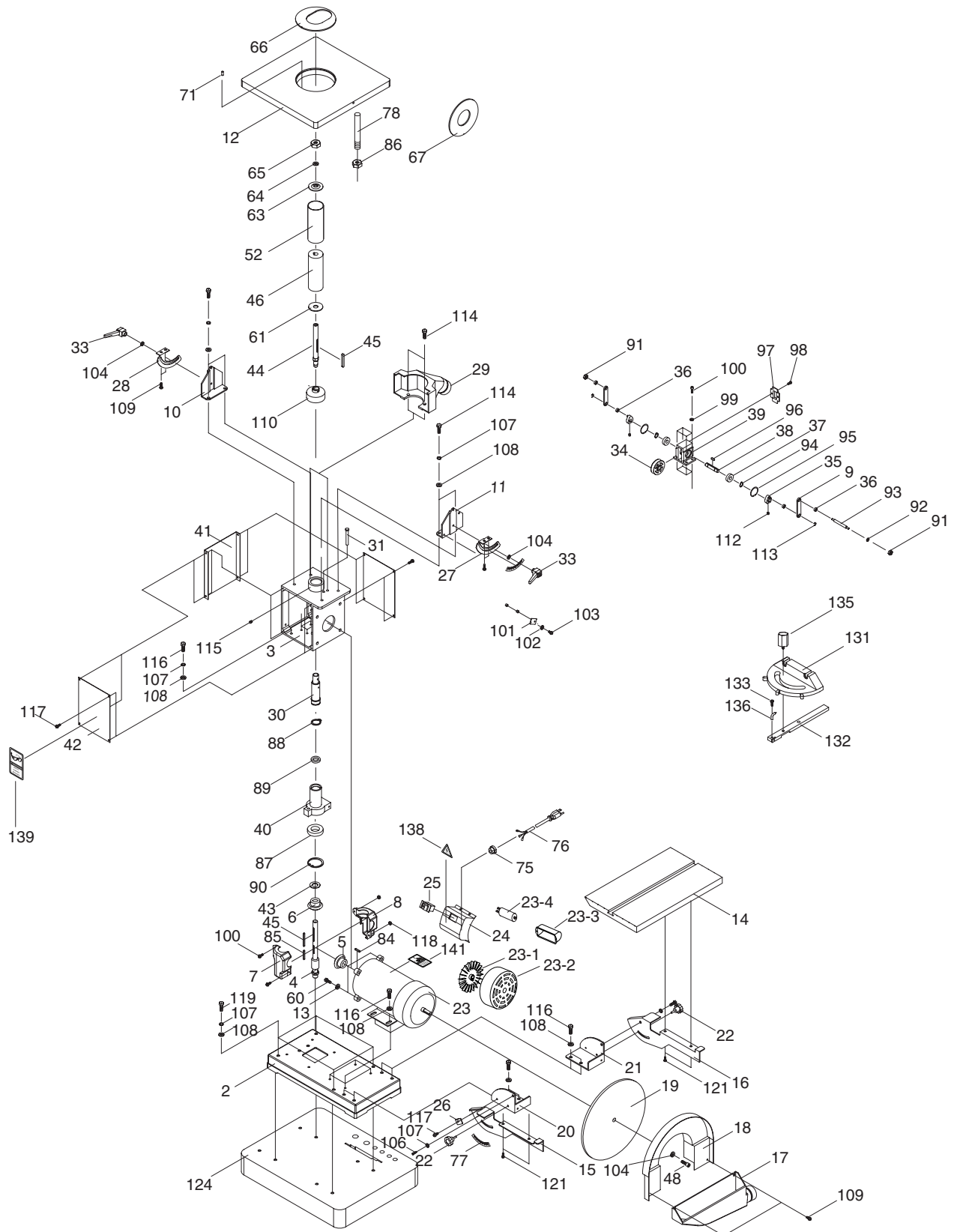
TypeTEFC Capacitor Start Induction
Horsepower.....1 HP
Phase Type / VoltageSingle Phase / 110V
Amps10A
Cycle & RPM60 Hz / 1725 RPM
Switch.....On/Off Toggle w/Safety Key
Power TransferDirect / Gear Drive

Features:

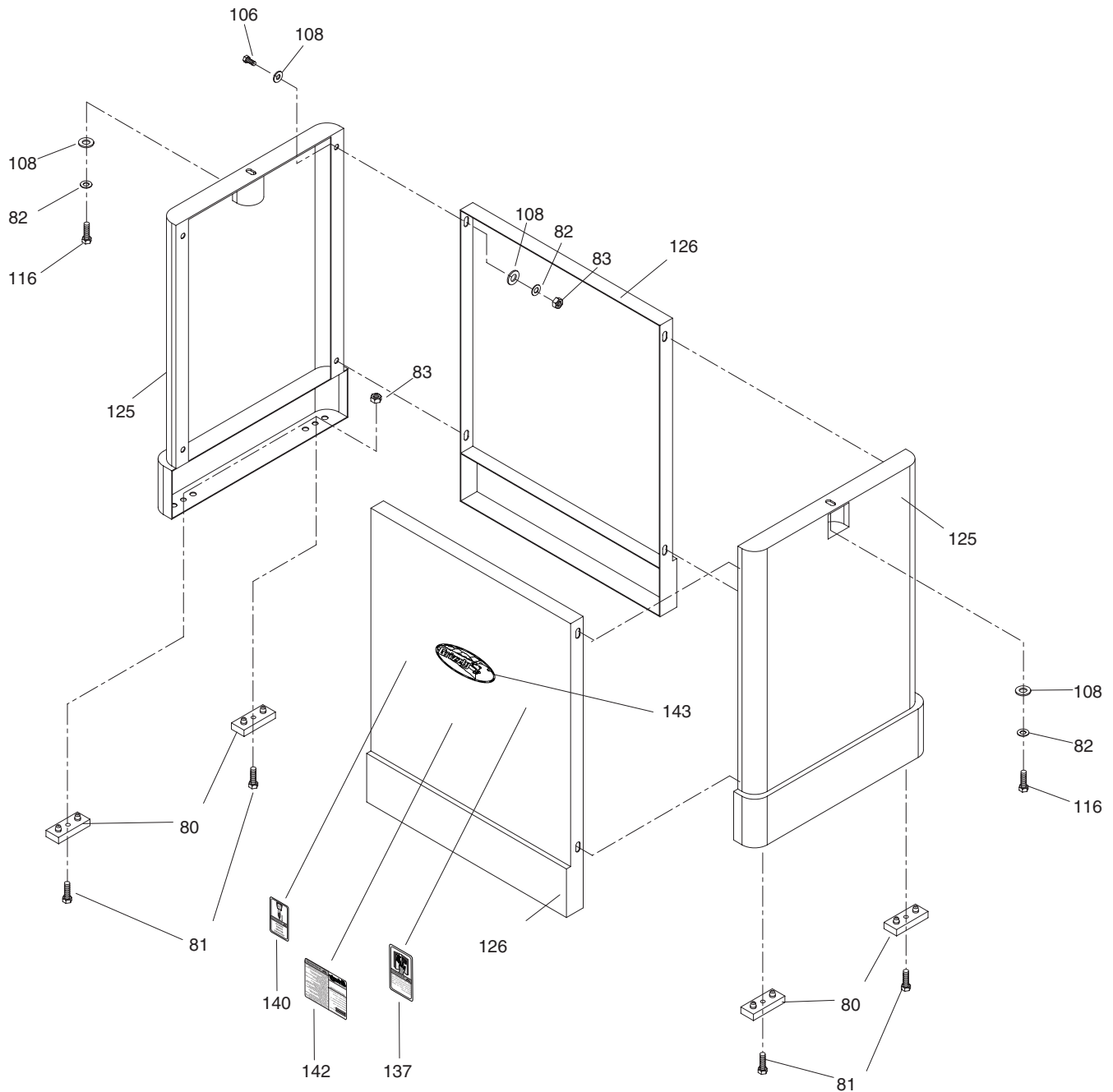
Spindle Sizes..... ¼", ⅝", 1½", 2" x 5½"
Spindle Stroke1"
Spindle Oscillation60 Strokes / Min.
Spindle Speed1725 RPM
Disc Speed1725 RPM
Disc Size12"
Dust Port2"

Specifications, while deemed accurate, are not guaranteed.

Parts Diagrams & Lists



Parts Diagrams & Lists



REF	PART #	DESCRIPTION
2	P0529002	BASE UPPER
3	P0529003	FRAME
4	P0529004	SPINDLE
5	P0529005	HELICAL BEVEL GEAR
6	P0529006	PU HELICAL BEVEL GEAR
7	P0529007	RIGHT OIL BOX
8	P0529008	LEFT OIL BOX
9	P0529009	CONNECTION ROD
10	P0529010	RIGHT BRACKET
11	P0529011	LEFT BRACKET
12	P0529012	WORKING TABLE
13	PW02	FLAT WASHER $\frac{3}{8}$
14	P0529014	WORKING TABLE
15	P0529015	FRONT GRADUATED SCALE
16	P0529016	REAR GRADUATED SCALE
17	P0529017	DUST HOOD
18	P0529018	DISC GUARD
19	P0529019	DISC
20	P0529020	FRONT BRACKET
21	P0529021	REAR BRACKET
22	P0529022	HAND KNOB
23	P0529023	MOTOR 1 HP
23-1	P0529023-1	MOTOR FAN
23-2	P0529023-2	FAN COVER
23-3	P0529023-3	CAPACITOR COVER
23-4	P0529023-4	CAPACITOR
24	P0529024	SWITCH BOX
25	PSW07	PADDLE SWITCH 110 V
26	P0529026	INDICATOR
27	P0529027	RIGHT GRADUATED SCALE
28	P0529028	LEFT GRADUATED SCALE
29	P0529029	DUST HOOD
30	P0529030	SPINDLE
31	P0529031	GUIDE ROD
32	PSS11	SETSCREW $\frac{1}{4}$ -20 X $\frac{1}{4}$
33	P0529033	HANDLE
34	P0529034	WORM GEAR
35	P0529035	CAM
36	P0529036	COPPER SLEEVE
37	P6001	BALL BEARING 6001ZZ
38	P0529038	WORM GEAR SHAFT
39	P0529039	WORM GEAR HOUSING
40	P0529040	CONNECTION PIECE
41	P0529041	SIDE COVER
42	P0529042	FRONT & REAR COVER
43	P0529043	SPACER
44	P0529044	ARBOR $\frac{5}{8}$
45	PK36M	KEY 5 X 5 X 50
46	P0529046	RUBBER PAD 2

REF	PART #	DESCRIPTION
47	P0529047	RUBBER PAD 1- $\frac{1}{2}$
48	PSB05	CAP SCREW $\frac{1}{4}$ -20 X $\frac{3}{4}$
50	P0529050	ARBOR $\frac{1}{4}$
52	P0529052	SANDING CLOTH 2
53	P0529053	SANDING CLOTH $\frac{1}{4}$
55	P0529055	SANDING CLOTH $\frac{5}{8}$
56	P0529056	SANDING CLOTH 1- $\frac{1}{2}$
59	P0529059	HOLDING DOWN PLATE $\frac{1}{4}$
60	PB32M	HEX BOLT M10-1.5 X 25
61	P0529061	LOWER PRESSURE PLATE 2
62	P0529062	UPPER PRESSURE PLATE 1- $\frac{1}{2}$
63	P0529063	UPPER PRESSURE PLATE 2
64	PW07	FLAT WASHER $\frac{5}{16}$
65	PN35	HEX NUT $\frac{5}{16}$ -18 (LH)
66	P0529066	2 TABLE INSERT (ELLIPTICAL)
67	P0529067	2 TABLE INSERT (ROUND)
68	P0529068	$\frac{3}{4}$ TABLE INSERT (ROUND)
69	P0529069	$\frac{3}{4}$ TABLE INSERT (ELLIPTICAL)
71	PRP61M	ROLL PIN 3 X 12
72	PWR1417	WRENCH 17MM
73	PWR1214	WRENCH 12MM
75	P0529075	STRAIN RELIEF BUSHING
76	PWRCRD110L	POWER CORD
77	P0529077	GRADUATED SCALE
78	P0529078	POSITIONING ROD
79	P0529079	SPINDLE WASHER
80	P0529080	PAD
81	PFH14	FLAT HD SCR $\frac{5}{16}$ -18 X $\frac{3}{4}$
82	PLW01	LOCK WASHER $\frac{5}{16}$
83	PN02	HEX NUT $\frac{5}{16}$ -18
84	PK20M	KEY 5 X 5 X15
85	PK42M	KEY 6 X 6 X 30
86	PN08	HEX NUT $\frac{3}{8}$ -16
87	P6006	BALL BEARING 6006ZZ
88	PR19M	EXT RETAINING RING 28MM
89	P6804	BALL BEARING 6804ZZ
90	PR55M	INT RETAINING RING 60MM
91	PLN02M	LOCK NUT M5-.8
92	PW02M	WASHER 5MM
93	P0529093	CONNECTION SHAFT
94	PR03M	EXT RETAINING RING 12MM
95	PR20M	INT RETAINING RING 28MM
96	PK47M	KEY 4 X 4 X15
97	P0529097	REAR OIL COVER
98	PS18	PHLP HD SCR 10-24 X $\frac{1}{4}$
99	PLW03M	LOCK WASHER 6MM
100	PSB28M	CAP SCREW M6-1 X 15
101	P0529101	POINTER
103	PS22M	PHLP HD SCR M5-.8 X 25

REF	PART #	DESCRIPTION
104	PW06	FLAT WASHER ¼
106	PSB07	CAP SCREW 5/16-18 X ¾
107	PLW01	LOCK WASHER 5/16
108	PW07	FLAT WASHER 5/16
109	PSB33M	CAP SCREW M5-.8 X 12
110	P0529110	COVER
112	PSS08M	SET SCREW M4-.7 X 5
113	PEC02M	E-CLIP 4MM
114	PB07M	HEX BOLT M8-1.25 X 25
115	PSS02M	SETSCREW M6-1 X 5
116	PB03	HEX BOLT 5/16-18 X 1
117	PS06	PHLP HD SCR 10-24 X ¾
118	PN01M	HEX NUT M6-1
119	PB04	HEX BOLT 5/16-18 X 3
120	PLN03	LOCK NUT 5/16-18
121	PB19	HEX BOLT ¼-20 X ½
123	P0529123	CARTON

REF	PART #	DESCRIPTION
124	P0529124	STAND TOP
125	P0529125	RIGHT AND LEFT PANEL
126	P0529126	FRONT/REAR PANEL
127	P6003	BALL BEARING 6003ZZ
129	P0529129	SANDING PAPER 100 GRIT
131	P0529131	MITER GAUGE BODY
132	P0529132	MITER GAUGE BAR
133	PS06	PHLP HD SCR 10-24 X ¾
135	P0529135	MITER GAUGE KNOB
136	P0529136	POINTER
137	PLABEL-12	WARNING LABEL-READ MANUAL
138	PLABEL-14	WARNING LABEL-ELECTRICITY
139	PLABEL-11	WARNING LABEL-GLASSES
140	PLABEL-32	WARNING LABEL-DUST MASK
141	PLABEL-26	WARNING LABEL-DISCONNECT
142	P0529142	WARNING LABEL-ID LABEL
143	G8588	GRIZZLY LOGO

Troubleshooting

TROUBLE	CAUSE	CORRECTION
Grains easily rub off the sleeve or disc .	<ol style="list-style-type: none"> 1. Sanding sleeve/disc has been stored in an incorrect environment. 2. Sanding sleeve/disc has been smashed or folded. 	<ol style="list-style-type: none"> 1. Store sanding sleeve/disc away from extremely hot or dry temperatures. 2. Store sanding sleeve/disc flat not bent or folded.
Deep sanding grooves or scars in workpiece.	<ol style="list-style-type: none"> 1. Sanding sleeve/disc grit is too coarse for the desired finish. 2. Workpiece sanded across the grain. 3. Too much sanding force on workpiece. 4. Workpiece held still against the sleeve/disc. 	<ol style="list-style-type: none"> 1. Use a finer grit sanding sleeve/disc. 2. Sand with the grain. 3. Reduce pressure on workpiece while sanding. 4. Keep workpiece moving while sanding on the sleeve/disc.
Sanding surface clogs quickly or burns.	<ol style="list-style-type: none"> 1. Too much pressure against sleeve/disc. 2. Sanding softwood. 	<ol style="list-style-type: none"> 1. Reduce pressure on workpiece while sanding. 2. Use different stock. Or, accept the characteristics of the stock and plan on cleaning/replacing sleeves frequently.
Glazed sanding surfaces.	<ol style="list-style-type: none"> 1. Sanding wet stock. 2. Sanding stock with high residue. 	<ol style="list-style-type: none"> 1. Dry stock properly before sanding. 2. Use different stock. Or, accept the characteristics of the stock and plan on cleaning/replacing sleeves/discs frequently.
Motor will not start.	<ol style="list-style-type: none"> 1. Low voltage. 2. Open circuit in motor or loose connections. 	<ol style="list-style-type: none"> 1. Check power line for proper voltage. 2. Inspect all lead connections on motor for loose or open connections.
Motor will not start; fuses or circuit breakers blow.	<ol style="list-style-type: none"> 1. Short circuit in line cord or plug. 2. Short circuit in motor or loose connections. 3. Incorrect fuses or circuit breakers in power line. 	<ol style="list-style-type: none"> 1. Inspect cord or plug for damaged insulation and shorted wires. 2. Inspect all connections on motor for loose or shorted terminals or worn insulation. 3. Install correct fuses or circuit breakers.
Motor overheats.	<ol style="list-style-type: none"> 1. Motor overloaded. 2. Incorrect usage of machine. 3. Air circulation through the motor restricted. 	<ol style="list-style-type: none"> 1. Reduce load on motor. 2. Reduce the applied load on the machine. 3. Clean out motor to provide normal air circulation.
Motor stalls (resulting in blown fuses or tripped circuit).	<ol style="list-style-type: none"> 1. Short circuit in motor or loose connections. 2. Low voltage. 3. Incorrect fuses or circuit breakers in power line. 4. Motor overloaded. 	<ol style="list-style-type: none"> 1. Inspect connections on motor for loose or shorted terminals or worn insulation. 2. Correct the low voltage conditions. 3. Install correct fuses or circuit breakers. 4. Reduce load on motor.
Burn marks on workpiece.	<ol style="list-style-type: none"> 1. Using too fine of sanding grit. 2. Using too much pressure. 3. Work held still for too long. 	<ol style="list-style-type: none"> 1. Use a coarser grit sanding sleeve/disc. 2. Reduce pressure on workpiece while sanding. 3. Do not keep workpiece in one place for too long.
Machine slows when operating.	<ol style="list-style-type: none"> 1. Applying too much pressure to workpiece. 2. Undersized circuit or using ext cord. 	<ol style="list-style-type: none"> 1. Sand with less pressure—let the movement of the sleeve/disc do the work. 2. Make sure circuit wires are proper gauge & don't use ext cords!
Machine vibrates excessively.	<ol style="list-style-type: none"> 1. Stand not stable on floor. 2. Incorrect motor mounting. 3. Incorrect sanding sleeve tension. 4. Weak or broken tension spring. 5. Idler roller is too loose. 6. Broken/defective sanding sleeve/disc. 	<ol style="list-style-type: none"> 1. Secure stand to floor, reposition to level surface, or shim stand. 2. Check/adjust motor mounting. 3. Make sure tension lever is in tensioning position. Follow sleeve tensioning instructions in this manual. 4. Replace spring. 5. Adjust idler roller. 6. Replace sanding sleeve/disc.
Workpiece frequently gets pulled out of your hand.	<ol style="list-style-type: none"> 1. Not supporting the workpiece against the stop. 2. Starting the workpiece on a leading corner. 	<ol style="list-style-type: none"> 1. Use back stop to support workpiece. 2. Start workpiece on a trailing corner.

Warranty & Returns

Grizzly Industrial, Inc. warrants every product it sells for a period of **1 year** to the original purchaser from the date of purchase. This warranty does not apply to defects due directly or indirectly to misuse, abuse, negligence, accidents, repairs or alterations or lack of maintenance. This is Grizzly's sole written warranty and any and all warranties that may be implied by law, including any merchantability or fitness, for any particular purpose, are hereby limited to the duration of this written warranty. We do not warrant or represent that the merchandise complies with the provisions of any law or acts unless the manufacturer so warrants. In no event shall Grizzly's liability under this warranty exceed the purchase price paid for the product and any legal actions brought against Grizzly shall be tried in the State of Washington, County of Whatcom.

We shall in no event be liable for death, injuries to persons or property or for incidental, contingent, special, or consequential damages arising from the use of our products.

To take advantage of this warranty, contact us by mail or phone and give us all the details. We will then issue you a "Return Number," which must be clearly posted on the outside as well as the inside of the carton. We will not accept any item back without this number. Proof of purchase must accompany the merchandise.

The manufacturers reserve the right to change specifications at any time because they constantly strive to achieve better quality equipment. We make every effort to ensure that our products meet high quality and durability standards and we hope you never need to use this warranty.

Please feel free to write or call us if you have any questions about the machine or the manual.

Thank you again for your business and continued support. We hope to serve you again soon.

WARRANTY CARD

Name _____
Street _____
City _____ State _____ Zip _____
Phone Number _____ E-Mail _____ FAX _____
Model # _____ Serial # _____ Order # _____

The following information is given on a voluntary basis. It will be used for marketing purposes to help us develop better products and services. Of course, all information is strictly confidential.

1. How did you learn about us?

<input type="checkbox"/> Advertisement	<input type="checkbox"/> Friend
<input type="checkbox"/> Catalog	<input type="checkbox"/> Card Deck
<input type="checkbox"/> World Wide Web	
<input type="checkbox"/> Other _____	
2. Which of the following magazines do you subscribe to.

<input type="checkbox"/> American Woodworker	<input type="checkbox"/> Practical Homeowner
<input type="checkbox"/> Cabinetmaker	<input type="checkbox"/> Shop Notes
<input type="checkbox"/> Family Handyman	<input type="checkbox"/> Today's Homeowner
<input type="checkbox"/> Fine Homebuilding	<input type="checkbox"/> WOOD
<input type="checkbox"/> Fine Woodworking	<input type="checkbox"/> Wooden Boat
<input type="checkbox"/> Home Handyman	<input type="checkbox"/> Woodshop News
<input type="checkbox"/> Journal of Light Construction	<input type="checkbox"/> Woodsmith
<input type="checkbox"/> Old House Journal	<input type="checkbox"/> Woodwork
<input type="checkbox"/> Popular Mechanics	<input type="checkbox"/> Woodworker
<input type="checkbox"/> Popular Science	<input type="checkbox"/> Woodworker's Journal
<input type="checkbox"/> Popular Woodworking	<input type="checkbox"/> Workbench
<input type="checkbox"/> Other _____	
3. Which of the following woodworking/remodeling shows do you watch?

<input type="checkbox"/> Backyard America	<input type="checkbox"/> The New Yankee Workshop
<input type="checkbox"/> Home Time	<input type="checkbox"/> This Old House
<input type="checkbox"/> The American Woodworker	<input type="checkbox"/> Woodwright's Shop
<input type="checkbox"/> Other _____	
4. What is your annual household income?

<input type="checkbox"/> \$20,000-\$29,999	<input type="checkbox"/> \$60,000-\$69,999
<input type="checkbox"/> \$30,000-\$39,999	<input type="checkbox"/> \$70,000-\$79,999
<input type="checkbox"/> \$40,000-\$49,999	<input type="checkbox"/> \$80,000-\$89,999
<input type="checkbox"/> \$50,000-\$59,999	<input type="checkbox"/> \$90,000 +
5. What is your age group?

<input type="checkbox"/> 20-29	<input type="checkbox"/> 50-59
<input type="checkbox"/> 30-39	<input type="checkbox"/> 60-69
<input type="checkbox"/> 40-49	<input type="checkbox"/> 70 +
6. How long have you been a woodworker?

<input type="checkbox"/> 0 - 2 Years	<input type="checkbox"/> 8 - 20 Years
<input type="checkbox"/> 2 - 8 Years	<input type="checkbox"/> 20+ Years
7. How would you rank your woodworking skills?

<input type="checkbox"/> Simple	<input type="checkbox"/> Advanced
<input type="checkbox"/> Intermediate	<input type="checkbox"/> Master Craftsman
8. What stationary woodworking tools do you own? Check all that apply.

<input type="checkbox"/> Air Compressor	<input type="checkbox"/> Panel Saw
<input type="checkbox"/> Bandsaw	<input type="checkbox"/> Planer
<input type="checkbox"/> Drill Press	<input type="checkbox"/> Power Feeder
<input type="checkbox"/> Drum Sander	<input type="checkbox"/> Radial Arm Saw
<input type="checkbox"/> Dust Collector	<input type="checkbox"/> Shaper
<input type="checkbox"/> Horizontal Boring Machine	<input type="checkbox"/> Spindle Sander
<input type="checkbox"/> Jointer	<input type="checkbox"/> Table Saw
<input type="checkbox"/> Lathe	<input type="checkbox"/> Vacuum Veneer Press
<input type="checkbox"/> Mortiser	<input type="checkbox"/> Wide Belt Sander
<input type="checkbox"/> Other _____	
9. How many of your woodworking machines are Grizzly? _____
10. Which benchtop tools do you own? Check all that apply.

<input type="checkbox"/> 1" x 42" Belt Sander	<input type="checkbox"/> 6" - 8" Grinder
<input type="checkbox"/> 5" - 8" Drill Press	<input type="checkbox"/> Mini Lathe
<input type="checkbox"/> 8" Table Saw	<input type="checkbox"/> 10" - 12" Thickness Planer
<input type="checkbox"/> 8" - 10" Bandsaw	<input type="checkbox"/> Scroll Saw
<input type="checkbox"/> Disc/Belt Sander	<input type="checkbox"/> Spindle/Belt Sander
<input type="checkbox"/> Mini Jointer	
<input type="checkbox"/> Other _____	
11. How many of the machines checked above are Grizzly? _____
12. Which portable/hand held power tools do you own? Check all that apply.

<input type="checkbox"/> Belt Sander	<input type="checkbox"/> Orbital Sander
<input type="checkbox"/> Biscuit Joiner	<input type="checkbox"/> Palm Sander
<input type="checkbox"/> Circular Saw	<input type="checkbox"/> Portable Planer
<input type="checkbox"/> Detail Sander	<input type="checkbox"/> Saber Saw
<input type="checkbox"/> Drill/Driver	<input type="checkbox"/> Reciprocating Saw
<input type="checkbox"/> Miter Saw	<input type="checkbox"/> Router
<input type="checkbox"/> Other _____	
13. What machines/supplies would you like Grizzly Industrial to carry?

14. What new accessories would you like Grizzly Industrial to carry?

15. What other companies do you purchase your tools and supplies from?

16. Do you think your purchase represents good value?
☐ Yes ☐ No
17. Would you recommend Grizzly Industrial to a friend?
☐ Yes ☐ No
18. Would you allow us to use your name as a reference for Grizzly customers in your area? **Note: We never use names more than three times.**
☐ Yes ☐ No
19. Comments: _____

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